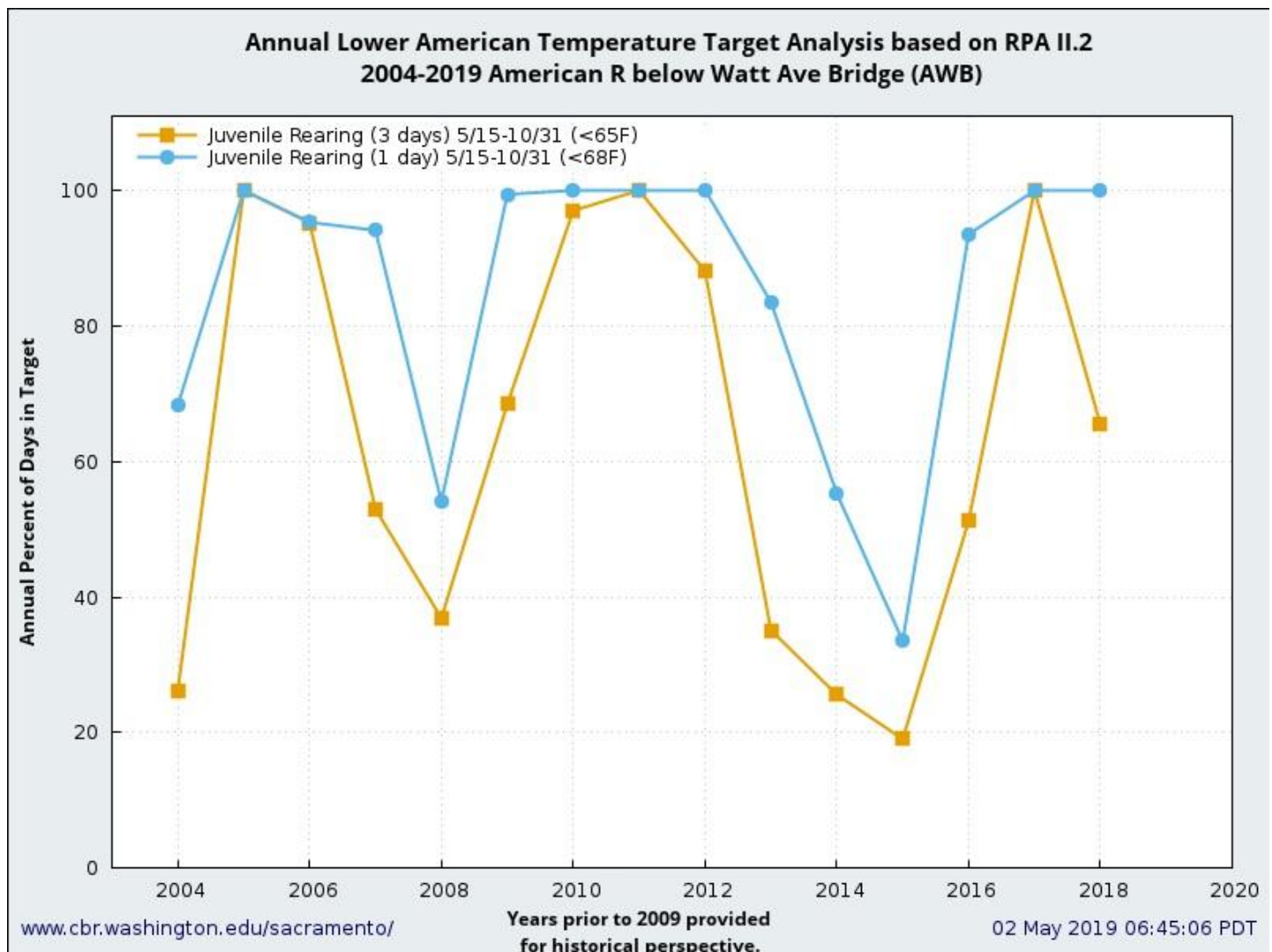
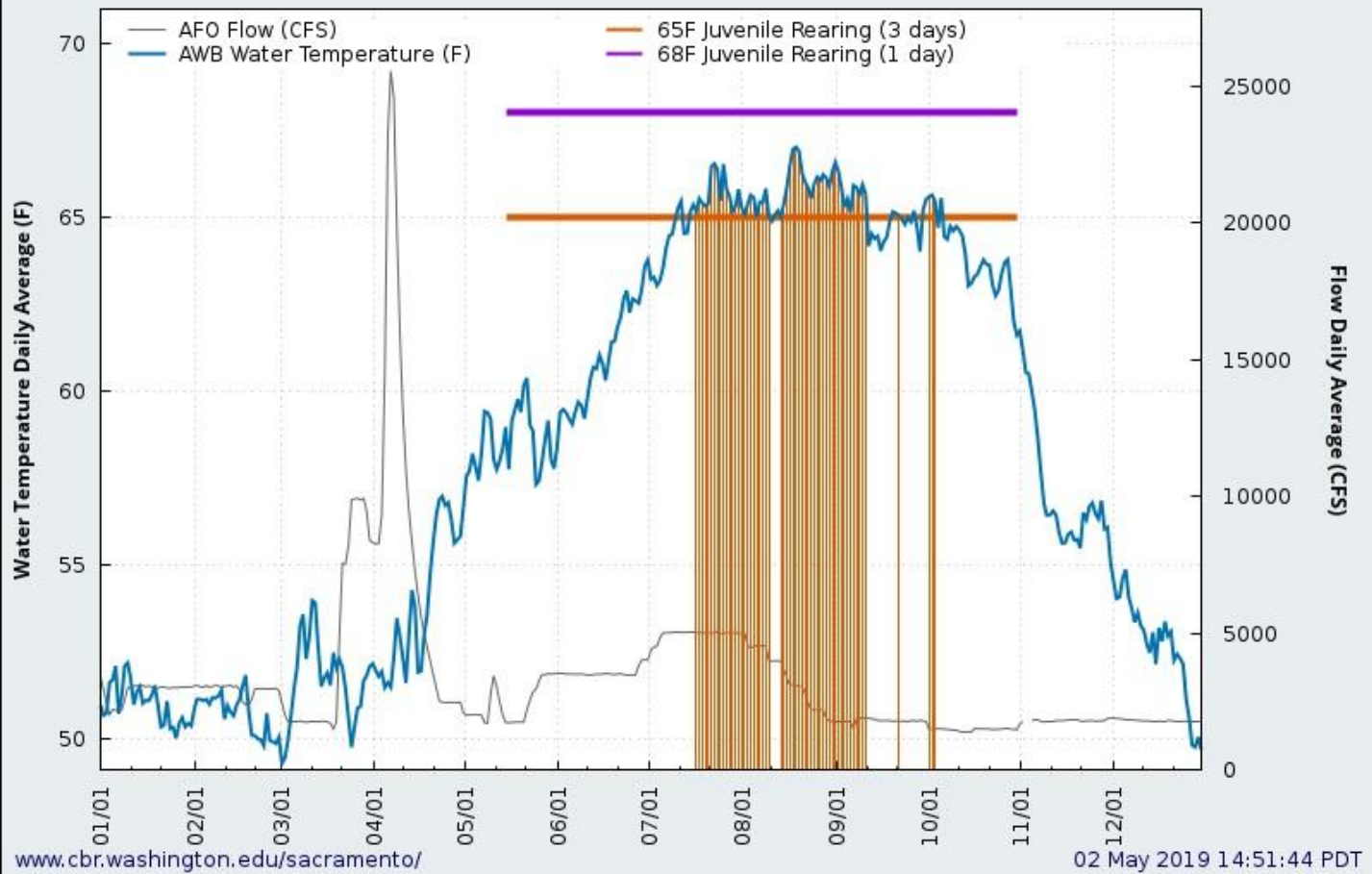


From: Stephen Maurano - NOAA Federal
Sent: Thursday, May 2, 2019 3:37 PM
To: Brian Ellrott
Cc: Cathy Marcinkevage - NOAA Federal
Subject: Re: American River Temperature Data Help

Hi Brian, I Googled around a bit, and think that perhaps [SacPass does a pretty good job analyzing and visualizing the RPA](#) (examples below). It doesn't include some of the QA/QC that Excel sheet did, nor the 1-3 degree climate change addition, and with either analysis it's difficult to incorporate the potential exceptions (e.g. when there's limited cold water availability in Folsom they can increase the target within limitations) but I think it might answer the questions Cathy mentioned, and it has figures and tables that can be directly used, or re-displayed if desired. Just let me know how you'd like to proceed and happy to assist wherever I can...



**2018 Lower American Temperature Target Analysis based on RPA II.2
American R below Watt Ave Bridge (AWB) Water Temperature
with American R at Fair Oaks (AFO) Flow**



On Thu, May 2, 2019 at 2:07 PM Cathy Marcinkevage - NOAA Federal <cathy.marcinkevage@noaa.gov> wrote:
Stephen, Brian --

Brian, Stephen is able to help with temperature data crunching and visualization. Can you give him access to the table you created and also connect? And consider some of the options he introduces below!

Stephen, yes, my S drive is your R...sorry about that. It is whatever you have the CVP ROCON drive mapped to. Dive in!

Let me know if you need anything!

Cathy

Cathy Marcinkevage

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Cell: (562) 537-8734
cathy.marcinkevage@noaa.gov*

On May 2, 2019, at 1:57 PM, Stephen Maurano - NOAA Federal <stephen.maurano@noaa.gov> wrote:

Sure, happy to help. Can you just put me in contact with Brian to get more details and a deadline to complete? I can't access that data you linked, but I'll ask Shawn to map the drive and then look at it.

I have no problem contributing with Excel, GIS, R, etc -- like you said, it's a good way to dip into items. Since I don't have a lot of background, my hope is just that the more experienced folks make sure I didn't misrepresent anything :-)

Just food for thought: I was analyzing some continuous temperature data last year in the San Joaquin and the Delta from CDEC & CDFW (from SJRRP) comparing against salmon 7DADMs (e.g. for migration <18C, spawning <13C, rearing <16C, etc). The data in orange exceeds the threshold while blue is below the threshold (versus gray, which is outside the migration, spawning, or rearing periods). Heat maps are also a good visualization, like the Ben Martin examples at the bottom...

<image.png>

<image.png> <image.png>

On Thu, May 2, 2019 at 12:10 PM Cathy Marcinkevage - NOAA Federal <cathy.marcinkevage@noaa.gov> wrote:

Stephen --

Brian and Joe have identified a need for some help in data visualization and analysis to support work they have done for the effects analysis for the ROC LTO for the American River.

Ultimately, they are looking for a good way to show how well the 65 F and 68 F daily average temperature (DAT) targets are achieved...or not.

We have some figures from Reclamation that show historical data; that is attached, and the data behind it are on the server at

S:\Data_Tech_Info\Historical\AmericanRiverTemData

Brian was also considering a table, something like the incomplete example in this google sheet (though he's not tied to this), to help show the ability or not to meet that temperature.

<https://docs.google.com/spreadsheets/d/1ktGgwgPLOTlhTvtYvCJom5n4EKhZdBzD3H-Z4icf2SM/edit?usp=sharing>

Can I throw you on this to work with Brian to help address this? He did suggest starting with the most recent years first as the last 10 years is likely a better representation of what is to come than what happened from say 2000 to 2009.

And, so you know, I don't see "figure making" as a primary go-to item for you to do long-term. I think this is a good way to dip in and we definitely can use the help in contributing, and you've shown to have a good eye for displaying info, which is critically important in this arena! But don't be worried that you're getting pegged for that role forever!

Let me know what you think --

Thanks!
Cathy

--

Stephen Maurano

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